

.....

p: tac

AAATGAGCTG TTGACAATTA ATCATCGGCT CGTATAATGT GTGGAATTGT GAGCGGATAA

EcoRI SacI KpnISmaI

CAATTTTACA CAGGAAACAG AATTCGAGCT CGGTACCCGG GCTACATGGA GATTAACTCA

RBS | -> α-globin

ATCTAGAGGG TATTAATAAT GTATCGCTTA AATAAGGAGG AATAACATAT GGTGCTGTCT

CCTGCCGACA AGACCAACGT CAAGGCCGCC TGGGGTAAGG TCGGCGCGCA CGCTGGCGAG

TATGGTGCGG AGGCCCTGGA GAGGATGTTT CTGTCCTTCC CCACCACCAA GACCTACTTC

CCGCACTTCG ATCTGAGCCA CGGCTCTGCC CAGGTTAAGG GCCACGGCAA GAAGGTGGCC

GACGCGCTGA CCAACGCCGT GCGGCACGTG GACGACATGC CCAACGCGCT GTCCGCCCTG

AGCGACCTGC ACGCGCACAA GCTTCGGGTG GACCCGGTCA ACTTCAAGCT CCTAAGCCAC

TGCCTGCTGG TGACCCTGGC CGCCACCTC CCCGCCGAGT TCACCCCTGC GGTGCACGCC

->|

TCCCTGGACA AGTTCCTGGC TTCTGTGAGC ACCGTGCTGA CCTCCAAATA CCGTTAACT

RBS | -> β-globin

AGAGGGTATT AATAATGTAT CGCTTAAATA AGGAGGAATA ACATATGGTG CACCTGACTC

CTGAGGAGAA GTCTGCCGTT ACTGCCCTGT GGGGCAAGGT GAACGTGGAT GAAGTTGGTG

GTGAGGCCCT GGGCAGGCTG CTGGTGGTCT ACCCTTGGAC CCAGAGGTTT TTTGAGTCCT

TTGGGGATCT GTCCACTCCT GATGCTGTTA TGGGCAACCC TAAGGTGAAG GTCATGGCA

AGAAAGTGCT CGGTGCCTTT AGTGATGGCC TGGCTCACCT GGACAACCTC AAGGGCACCT

TTGCCACACT GAGTGAGCTG CACTGTGACA AGCTGCACGT GGATCCTGAG AACTTCAGGC

β108Asn->Gln

TCCTGGGACA AGTACTGGTC TGTGTGCTGG CCCATCACTT TGGCAAAGAA TTCACCCAC

CAGTGCAGGC TGCCTATCAG AAAGTGGTGG CTGGTGTGGC TAATGCCCTG GCCCACAAGT

->| SphI rrB (5S, T1, T2)

ATCACTAAGC ATGCATCTGT TTTGGCGGAT GAGAGAAGAT TTTGAGCCTG ATACAGATTA

NsiI

.....

FIG. 1A

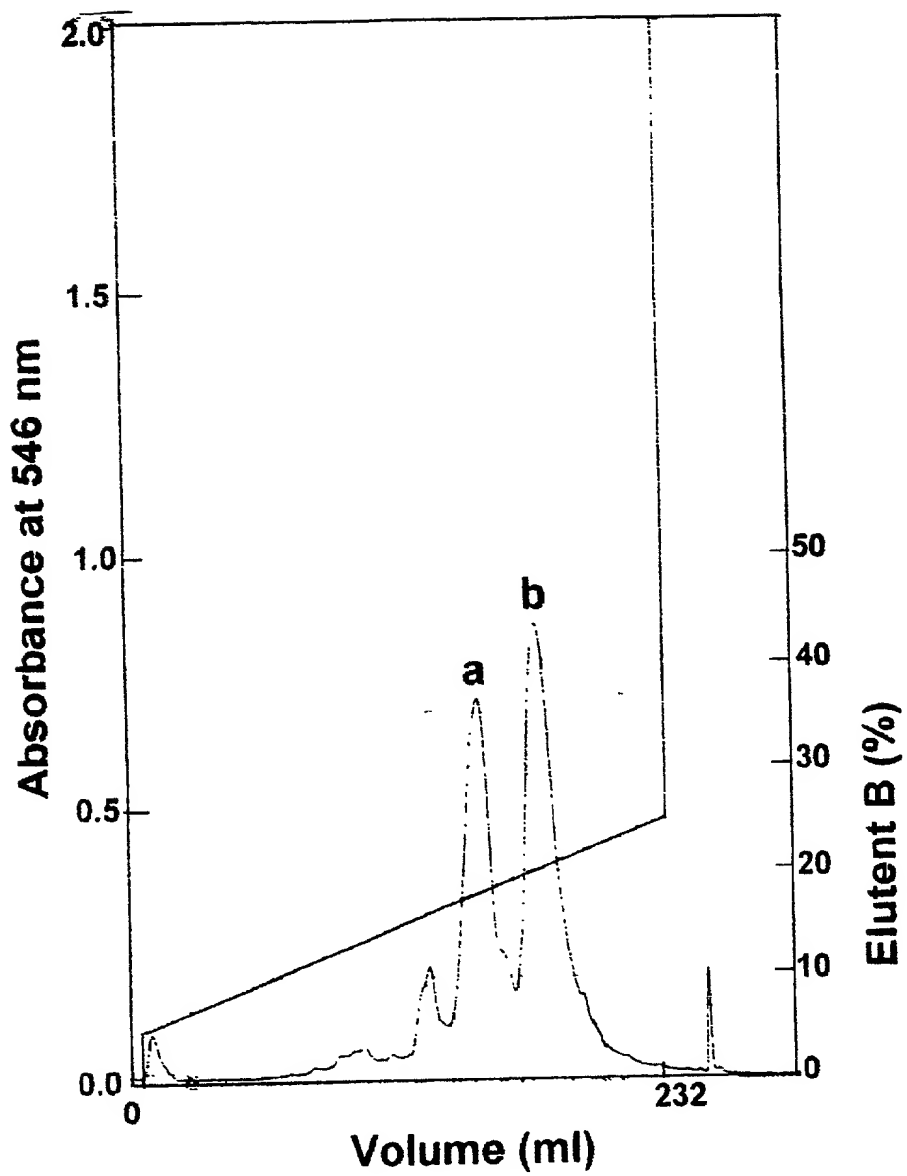


FIG. 2A

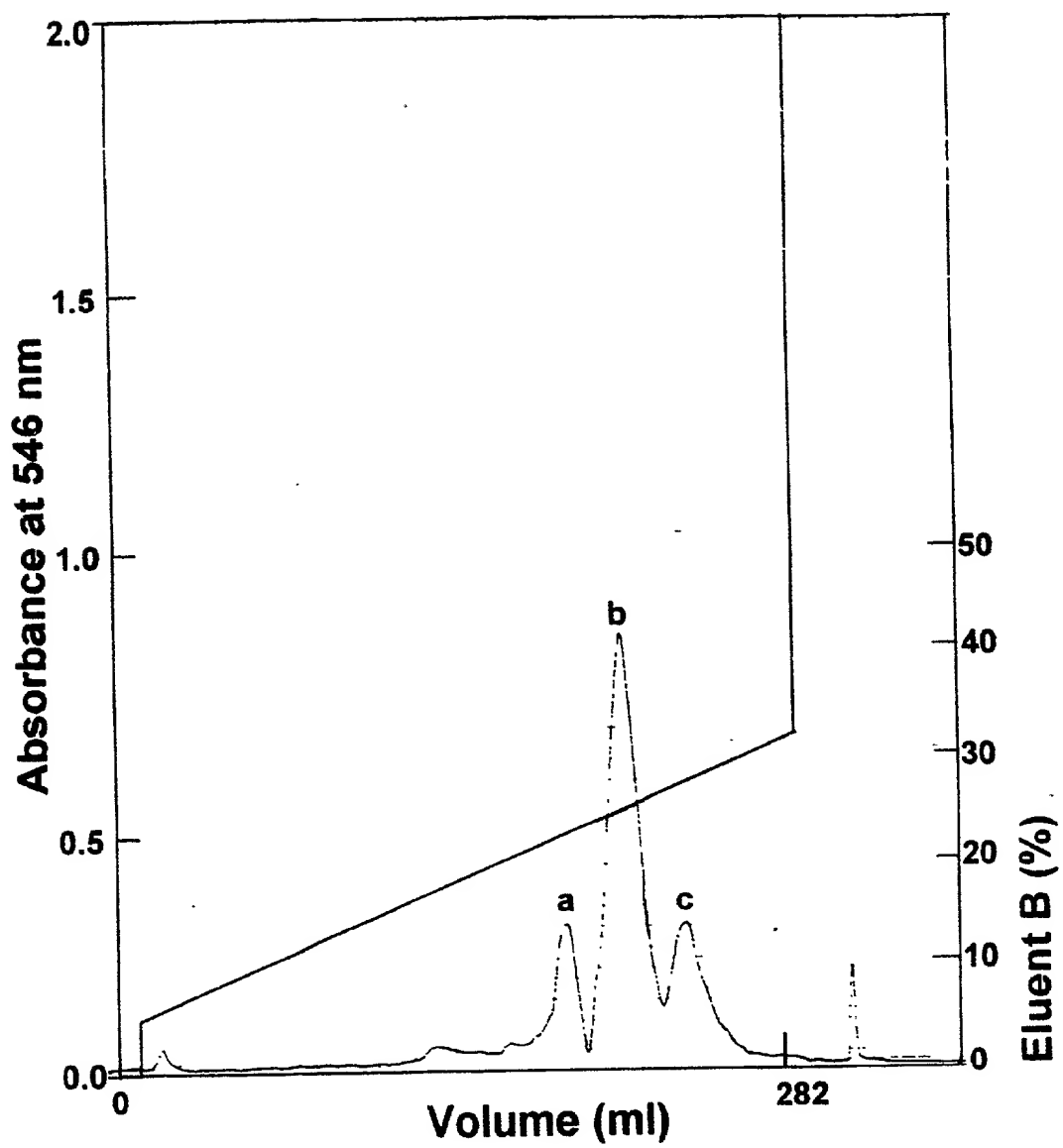


FIG. 2B

FIG. 3A

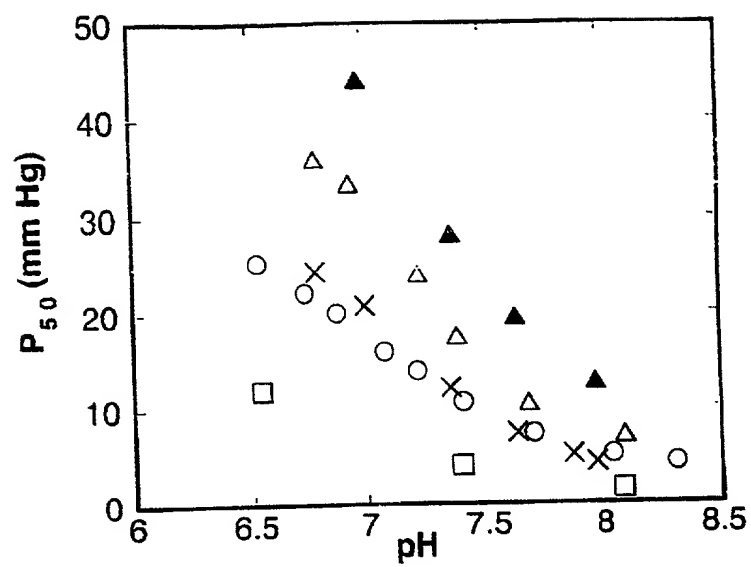
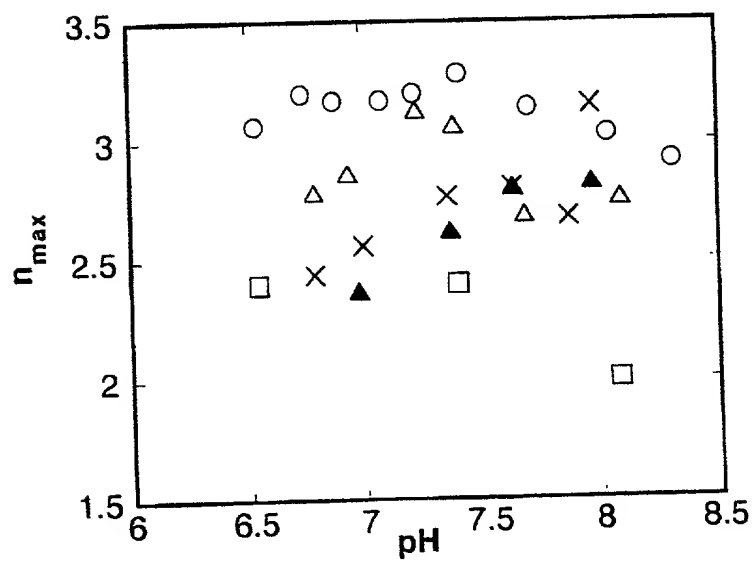


FIG. 3B



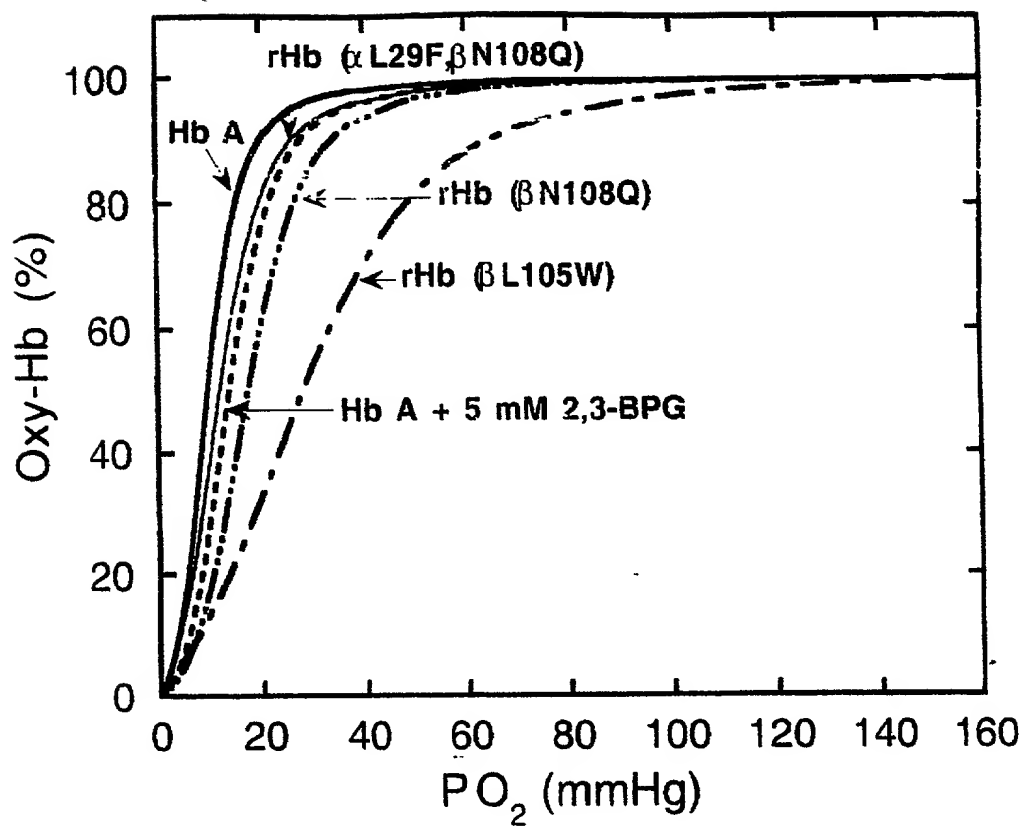


FIG. 4

Figure 1 is a line graph showing the percentage of oxygenated hemoglobin (Oxy-Hb) over time (hr) for five different groups. The y-axis is labeled 'Oxy-Hb (%)' and ranges from 0 to 100. The x-axis is labeled 'Time (hr)' and ranges from 0 to 40. The groups are represented by different symbols: open circles (highest Oxy-Hb), open diamonds, open squares, open triangles, and filled triangles (lowest Oxy-Hb). All groups show a decrease in Oxy-Hb over time, with the filled triangle group showing the most rapid decline.

FIG. 5

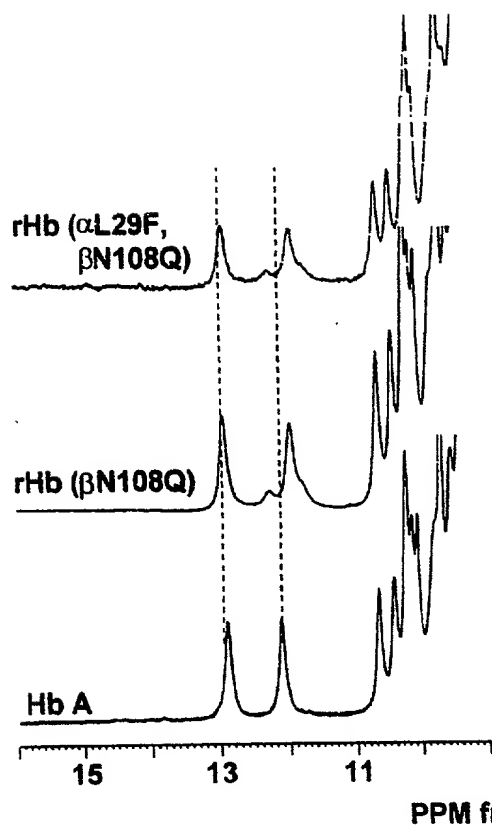


FIG. 6A

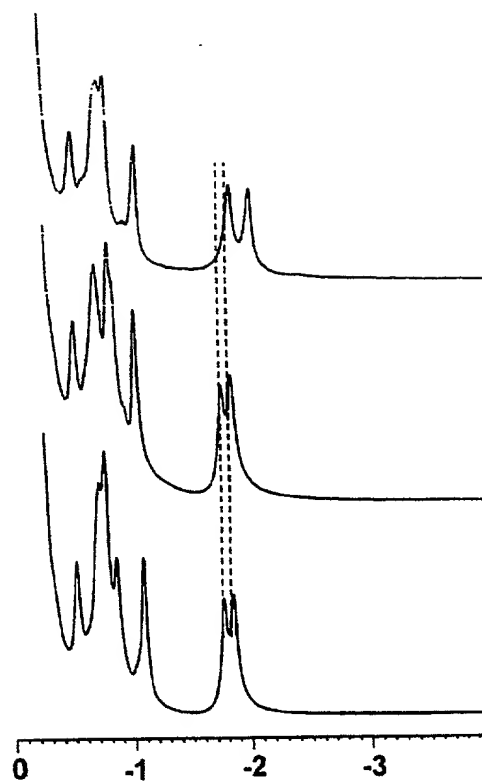


FIG. 6B

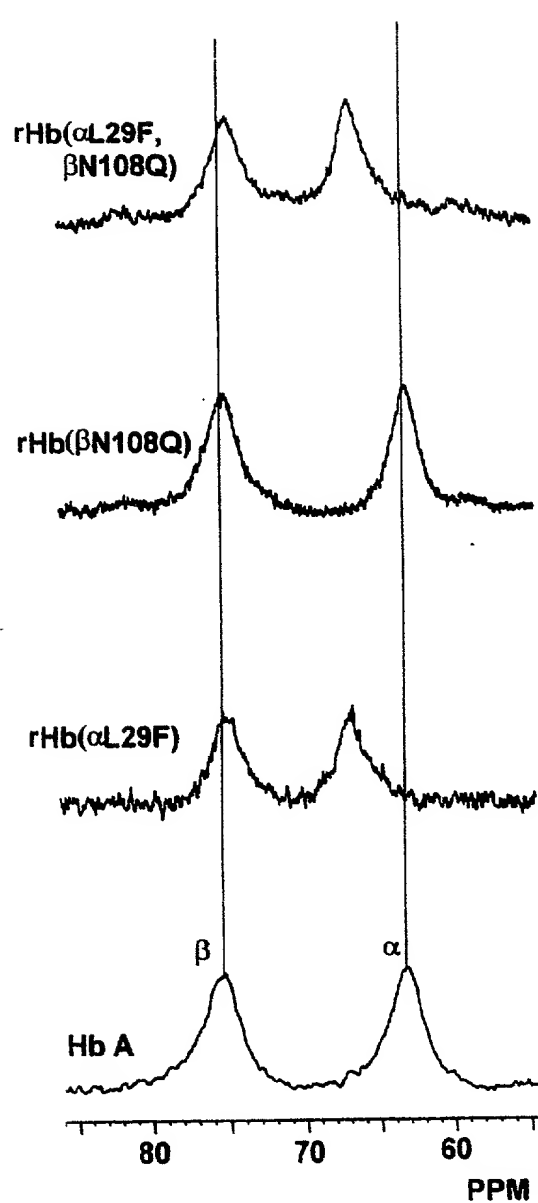


FIG. 7A

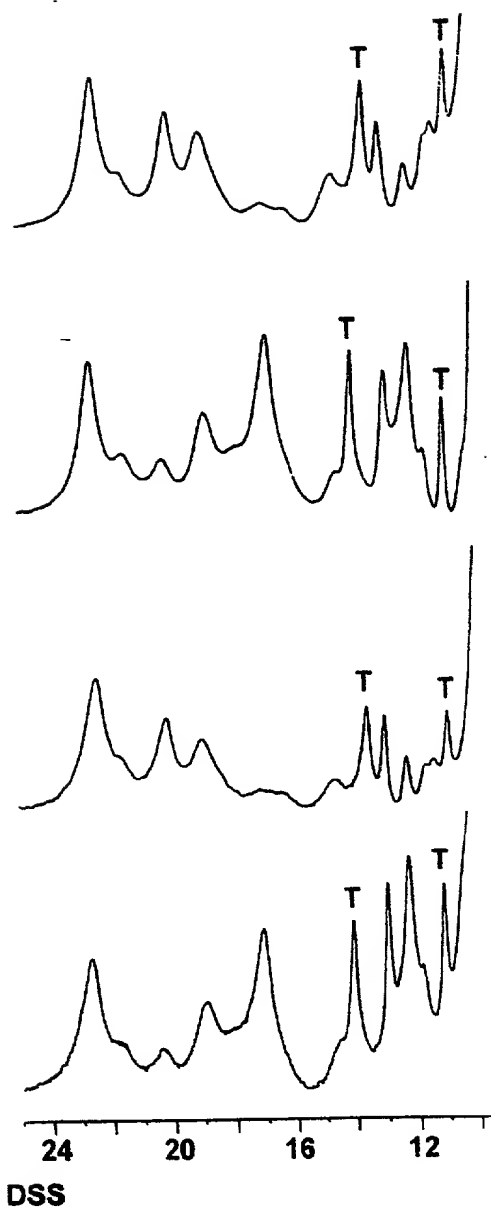


FIG. 7B

099667-0300

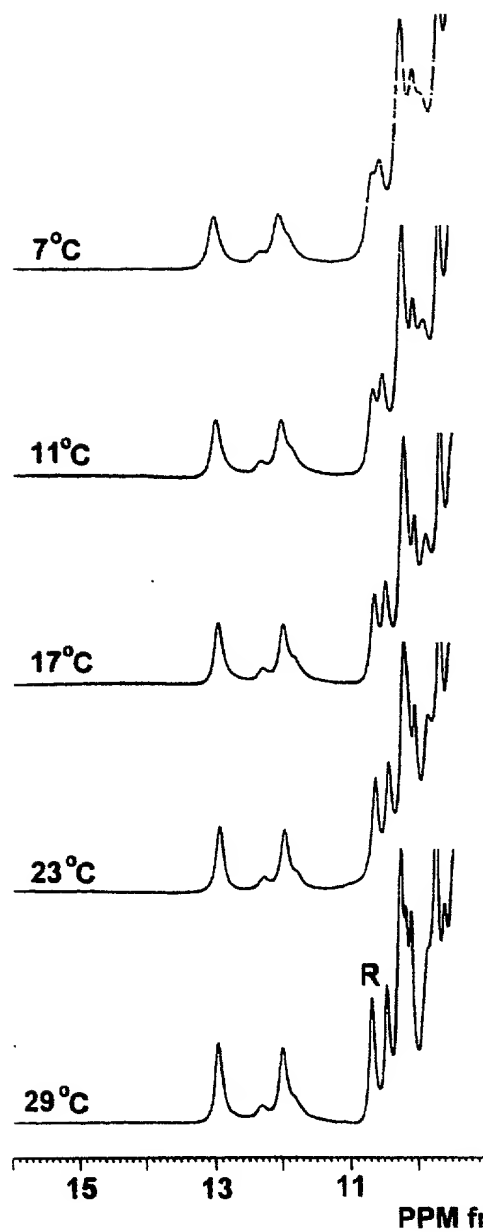


FIG. 8A

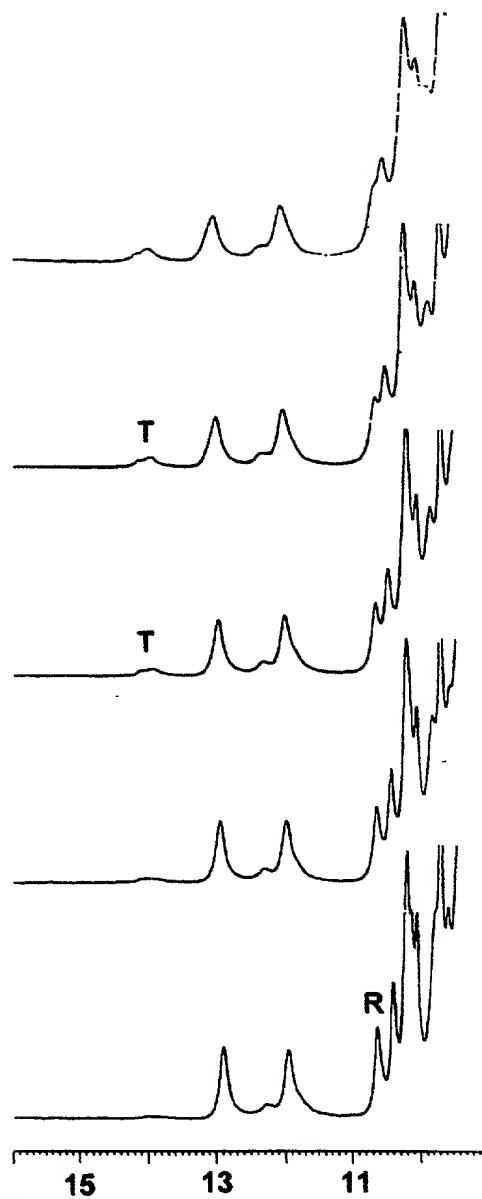


FIG. 8B

FIG. 9B

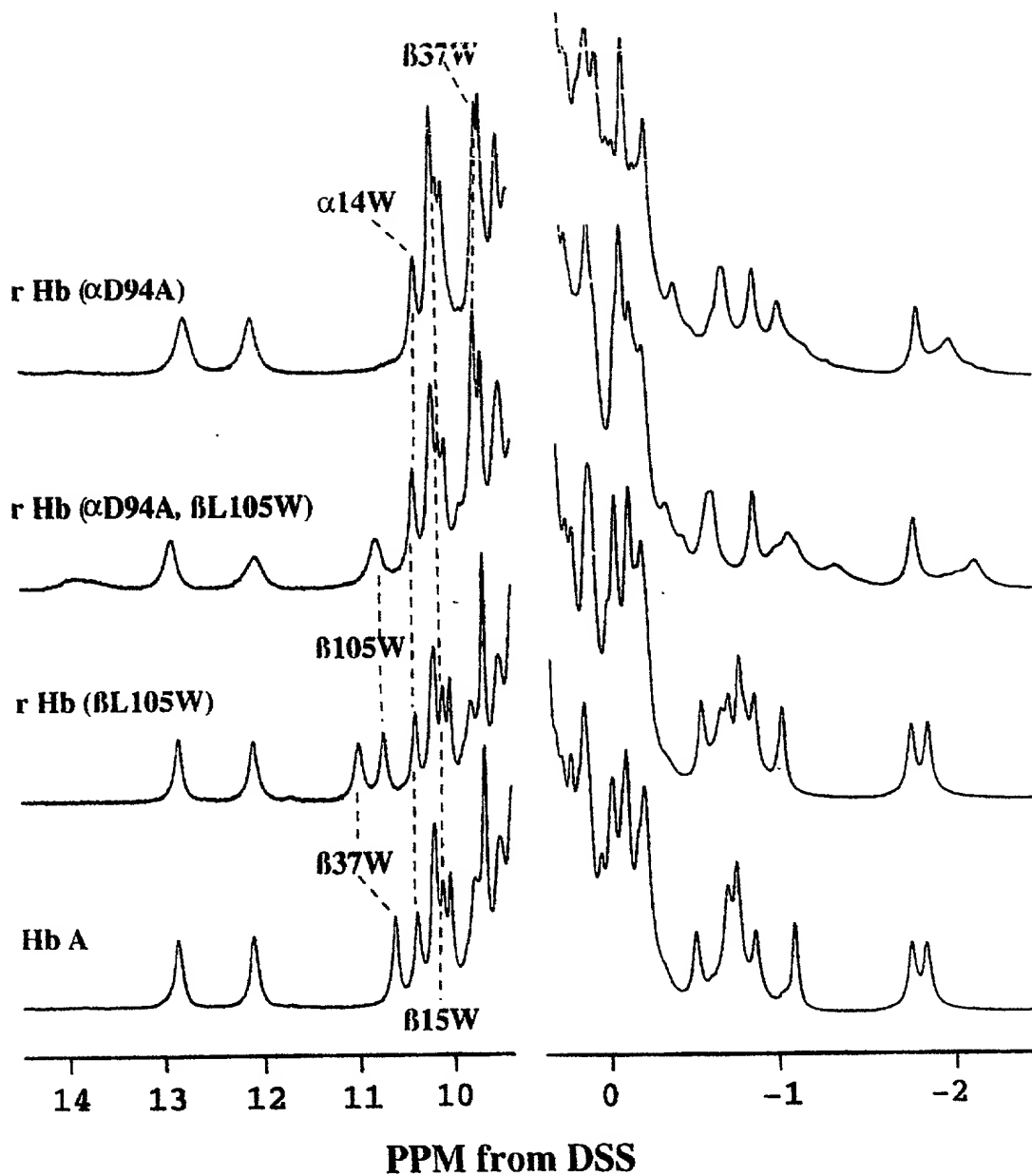


FIG. 10A

FIG. 10B

FIG. 11A

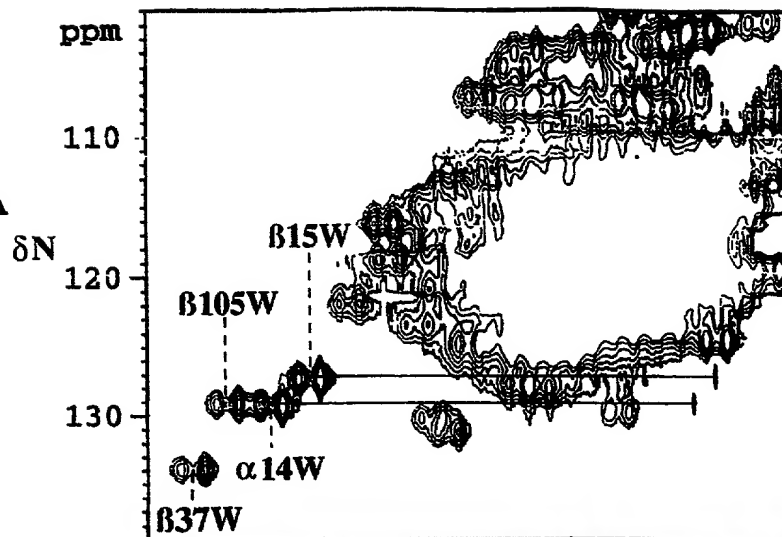


FIG. 11B

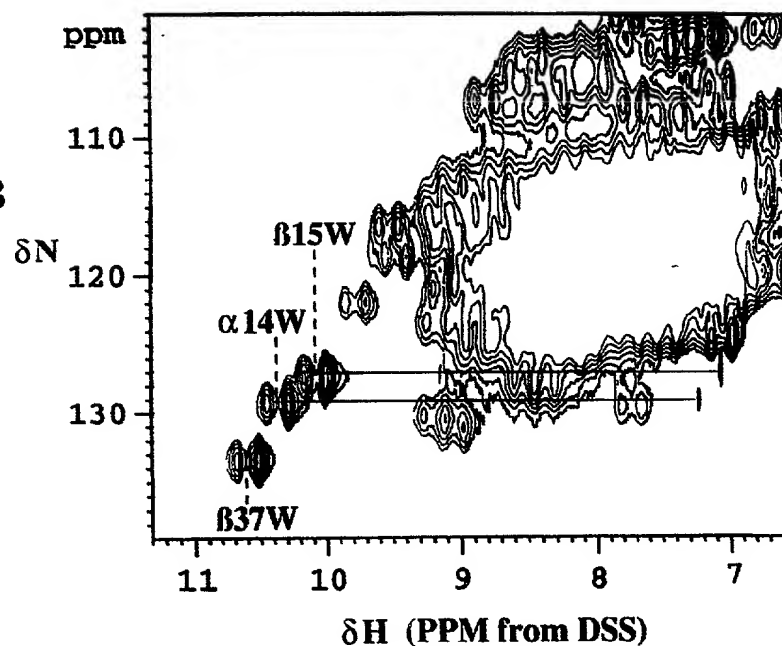


FIG. 12A

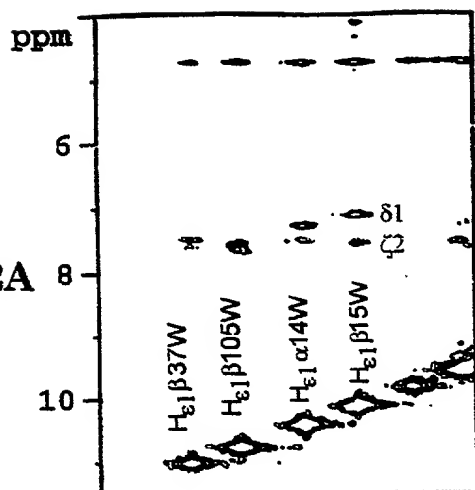


FIG. 12B

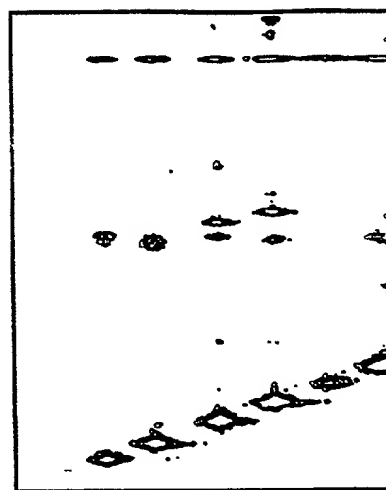


FIG. 12C

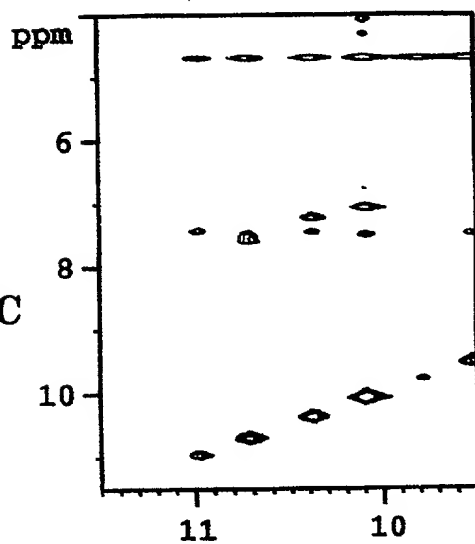
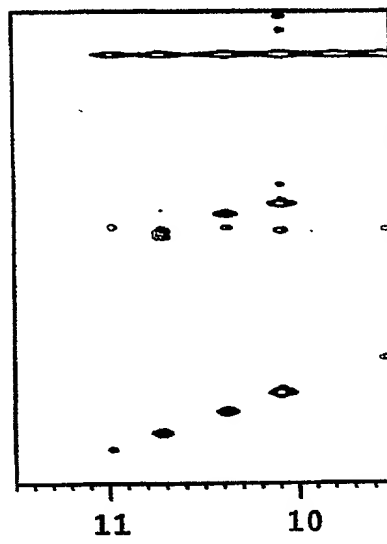


FIG. 12D



PPM from DSS

FIG. 13C

20250729 09:00

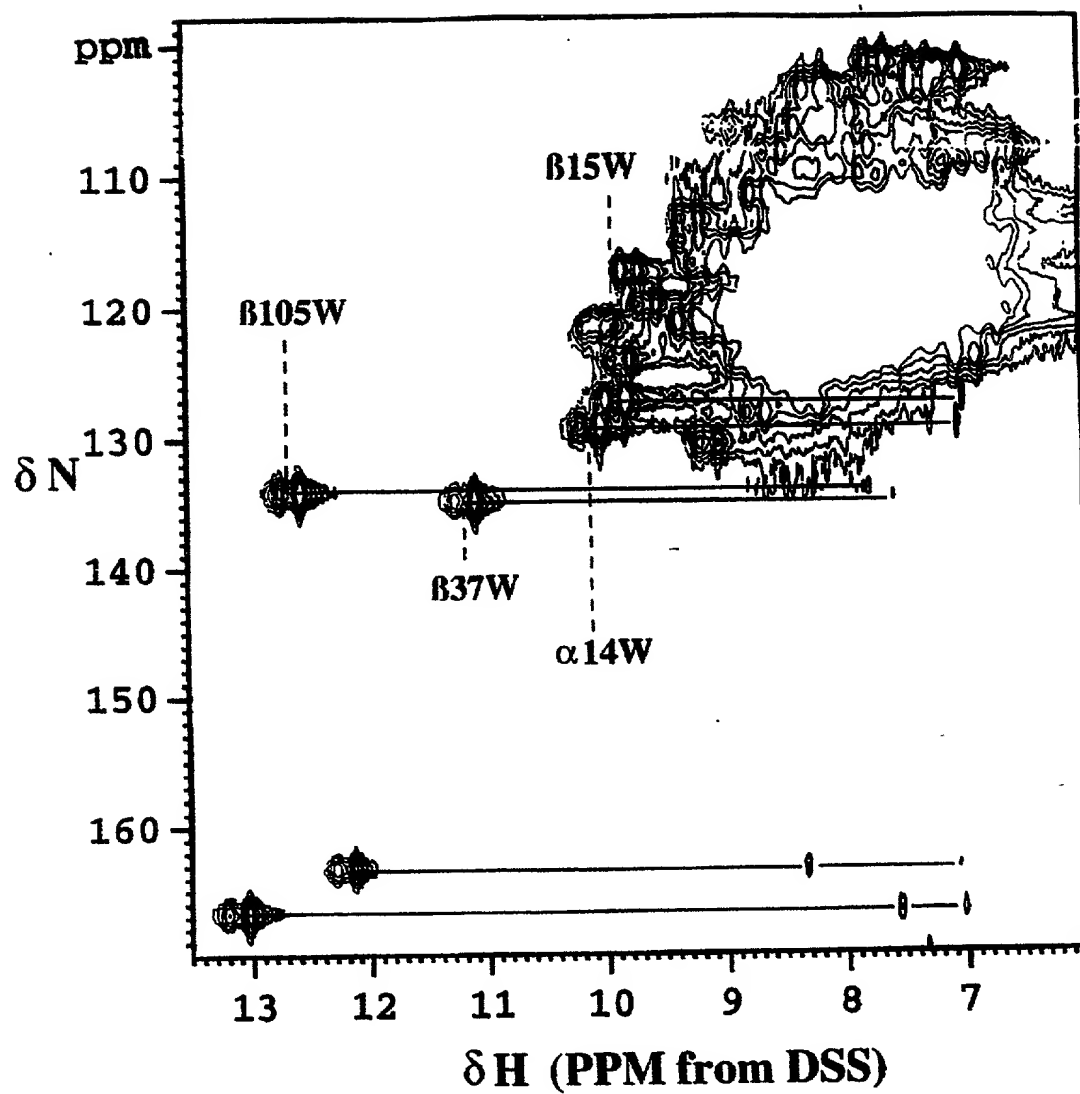


FIG. 14

FIG. 15A

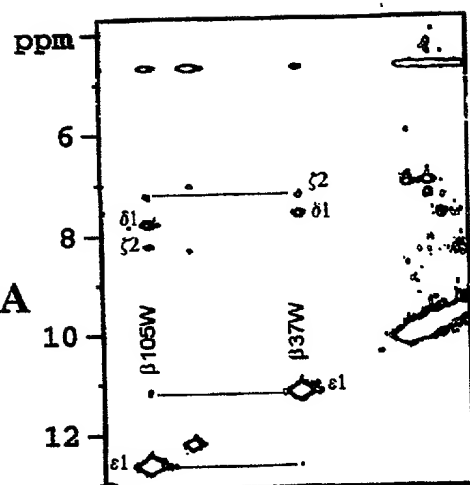


FIG. 15B

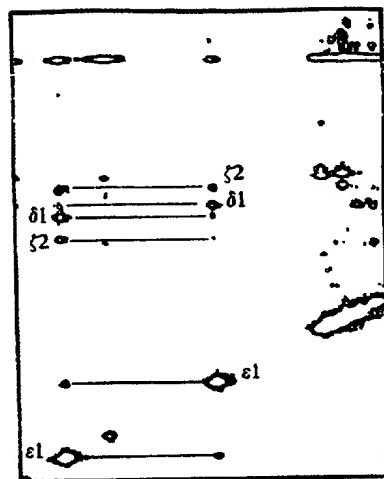


FIG. 15C

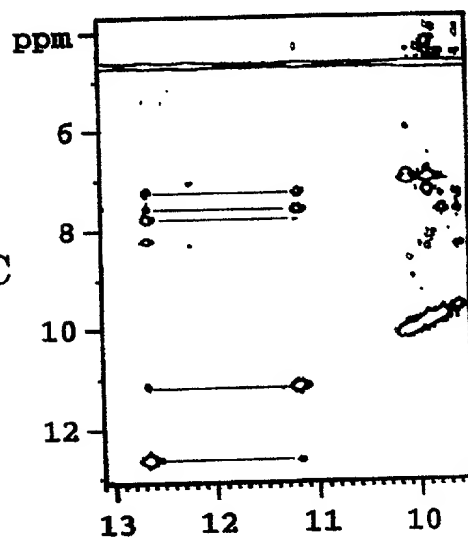
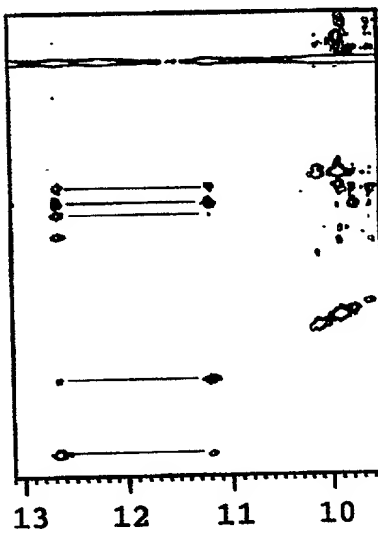


FIG. 15D



PPM from DSS

FIG. 16 A

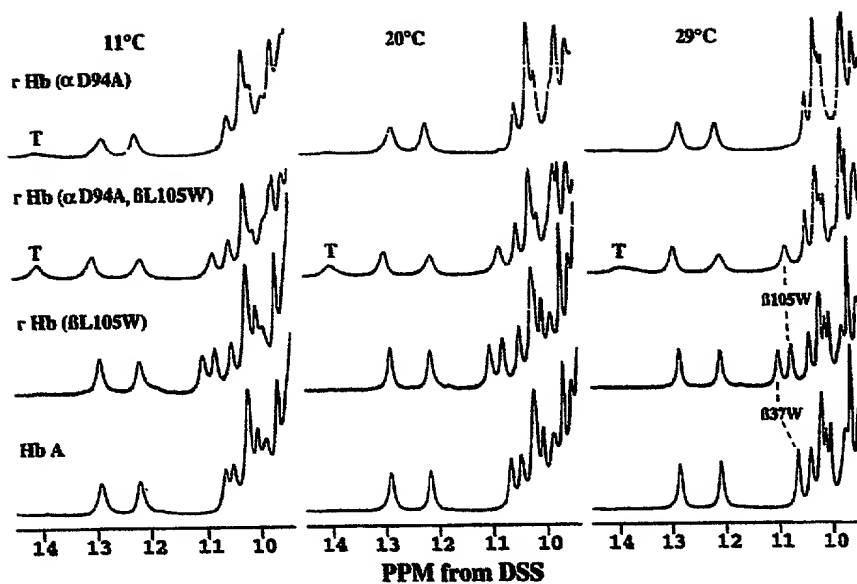


FIG. 16B

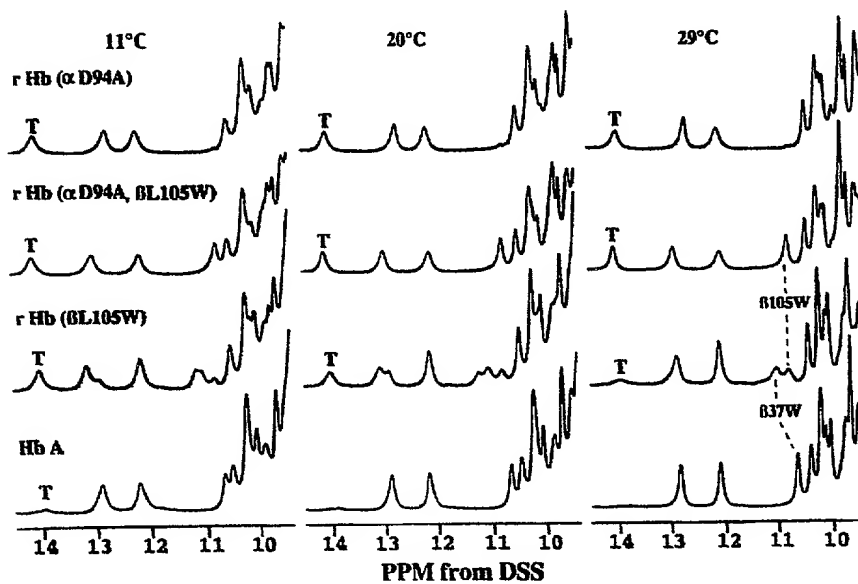


FIG. 17A

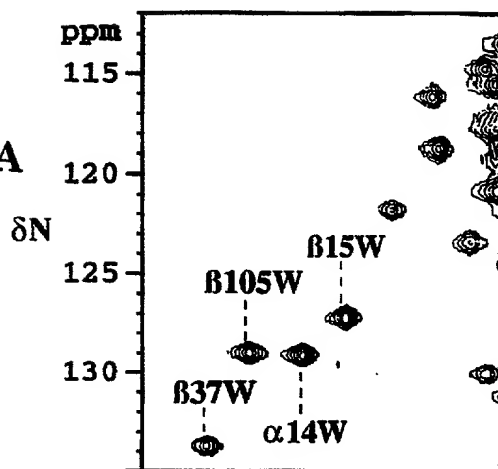


FIG. 17B

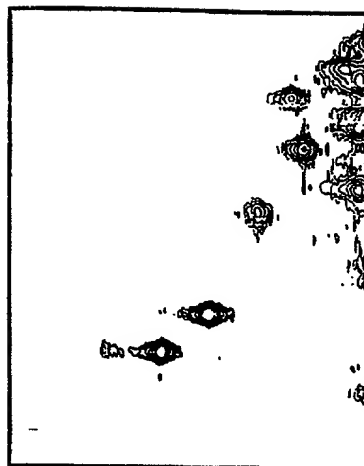


FIG. 17C

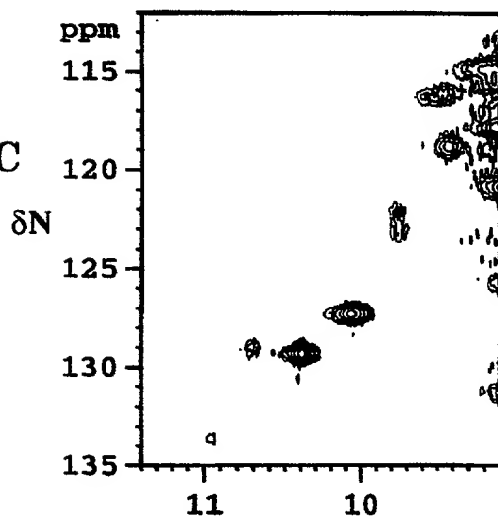
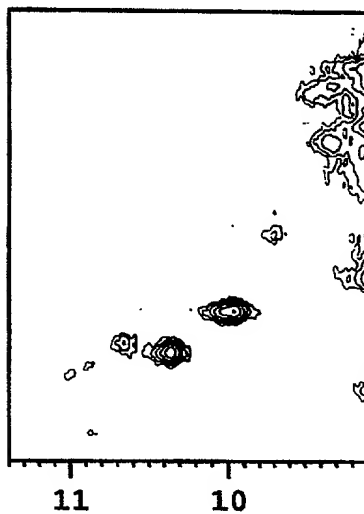


FIG 17D



δH (PPM from DSS)

FIG. 18A

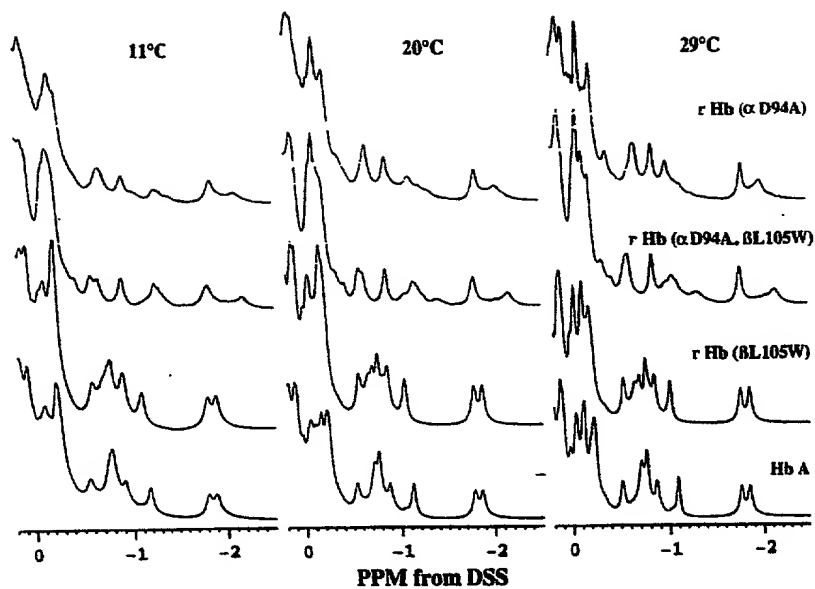


FIG. 18B

